

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application.

Claims 1-12 (Cancelled)

13. (New) A tractor wherein

a transmission casing is arranged in a rear portion of a vehicle body,
a front axle casing is arranged in the front portion of the vehicle body, and
power from an engine is transmitted from an output shaft supported by the
transmission casing through a power transmission shaft to an input shaft supported by the
front axle casing,

characterized in that

a gear casing is disposed between the transmission casing and the front axle
casing,

the gear casing is detachably attached to a clutch housing disposed before the
transmission casing,

the output shaft of the transmission casing and an input shaft of the gear casing
are arranged on a same line and connected to each other, and

the input shaft of the front axle casing and an output shaft of the gear casing are
arranged on a same line and connected to each other.

14. (New) A tractor as set forth in claim 13, wherein a differential mechanism of
traveling vehicle disposed in the front portion of the tractor comprises:

a differential connecting left and right output shafts, supported by the front axle
casing, through a pair of planetary gear mechanisms;

a turning hydrostatic transmission giving difference of rotation speed on the
output shafts through the planetary gear mechanisms so as to perform turning of the
vehicle; and

a mechanical turning transmission changing power from the turning hydrostatic transmission in speed and then transmitting the power to the differential.

15. (New) A tractor as set forth in claim 14, wherein the mechanical turning transmission is a hydraulic-clutch type turning transmission.
16. (New) A tractor as set forth in claim 15, wherein the turning transmission is interlockingly connected to a sub transmission disposed in the transmission casing.
17. (New) A tractor as set forth in claim 13, wherein

power from the engine mounted on the traveling vehicle of the tractor is transmitted to a hydraulic clutch type forward/rearward traveling switching device and the main transmission,
subsequently the power is transmitted to the sub transmission and changed in speed, and then traveling drive is performed,
the turning hydrostatic transmission is actuated so as to control turning of the vehicle, and
pressure oil is returned from the turning hydrostatic transmission through an oil cooler to the transmission casing.
18. (New) A tractor as set forth in claim 13, wherein

power from the engine mounted on the traveling vehicle of the tractor is transmitted to a hydraulic clutch type forward/rearward traveling switching device and the main transmission,
subsequently the power is transmitted to the sub transmission and changed in speed, and then traveling drive is performed,
the turning hydrostatic transmission is actuated so as to control turning of the vehicle, and

pressure oil returning from the turning hydrostatic transmission is supplied through an oil cooler to frictional boards of the hydraulic clutch of the forward/rearward traveling switching device.

19. (New) A tractor as set forth in claim 13, wherein
 - a crawler traveling unit is provided in the tractor,
 - the crawler traveling unit is constructed so that a tank roller is provided between a drive sprocket and an idler and a crawler belt is wound around the drive sprocket, the idler and the tank roller,
 - a shaft rotatably supporting the tank roller is divided into plural parts, and the divided shafts are connected to each other through an elastic member.
20. (New) A tractor as set forth in claim 19, wherein ends of the divided shafts are shaped so as to engage with each other.
21. (New) A tractor as set forth in claim 20, wherein the ends of the divided shafts are shaped so as to mesh with each other.
22. (New) A tractor wherein
 - a transmission casing is arranged in a rear portion of a vehicle body,
 - a front axle casing is arranged in the front portion of the vehicle body, and
 - power from an engine is transmitted from an output shaft supported by the transmission casing through a power transmission shaft to an input shaft supported by the front axle casing,
 - characterized in that
 - a gear casing is disposed between the transmission casing and the front axle casing,
 - the gear casing is constructed integrally with a flywheel casing disposed behind the engine,
 - the output shaft of the transmission casing and an input shaft of the gear casing are arranged on a same line and connected to each other, and

the input shaft of the front axle casing and an output shaft of the gear casing are arranged on a same line and connected to each other.

23. (New) A tractor as set forth in claim 22, wherein a differential mechanism of traveling vehicle disposed in the front portion of the tractor comprises:

a differential connecting left and right output shafts, supported by the front axle casing, through a pair of planetary gear mechanisms;

a turning hydrostatic transmission giving difference of rotation speed on the output shafts through the planetary gear mechanisms so as to perform turning of the vehicle; and

a mechanical turning transmission changing power from the turning hydrostatic transmission in speed and then transmitting the power to the differential.

24. (New) A tractor as set forth in claim 23, wherein the mechanical turning transmission is a hydraulic-clutch type turning transmission.

25. (New) A tractor as set forth in claim 23, wherein the turning transmission is interlockingly connected to a sub transmission disposed in the transmission casing.

26. (New) A tractor as set forth in claim 22, wherein

power from the engine mounted on the traveling vehicle of the tractor is transmitted to a hydraulic clutch type forward/rearward traveling switching device and the main transmission,

subsequently the power is transmitted to the sub transmission and changed in speed, and then traveling drive is performed,

the turning hydrostatic transmission is actuated so as to control turning of the vehicle, and

pressure oil is returned from the turning hydrostatic transmission through an oil cooler to the transmission casing.

27. (New) A tractor as set forth in claim 22, wherein

power from the engine mounted on the traveling vehicle of the tractor is transmitted to a hydraulic clutch type forward/rearward traveling switching device and the main transmission,

subsequently the power is transmitted to the sub transmission and changed in speed, and then traveling drive is performed,

the turning hydrostatic transmission is actuated so as to control turning of the vehicle, and

pressure oil returning from the turning hydrostatic transmission is supplied through an oil cooler to frictional boards of the hydraulic clutch of the forward/rearward traveling switching device.

28. (New) A tractor as set forth in one of claims 22, wherein

a crawler traveling unit is provided in the tractor,

the crawler traveling unit is constructed so that a tank roller is provided between a drive sprocket and an idler and a crawler belt is wound around the drive sprocket, the idler and the tank roller,

a shaft rotatably supporting the tank roller is divided into plural parts, and the divided shafts are connected to each other through an elastic member.

29. (New) A tractor as set forth in claim 28, wherein ends of the divided shafts are shaped so as to engage with each other.

30. (New) A tractor as set forth in claim 29, wherein the ends of the divided shafts are shaped so as to mesh with each other.